

We Claim:

1. A needle-free injection device, comprising:

a syringe assembly configured to draw in and expel injectable fluid, the syringe

5 assembly being configured to expel injectable fluid upon application of pressurized gas to the syringe assembly from a gas reservoir; and

a marking assembly configured to place a mark on or near an injection site to indicate an injection has occurred, the marking assembly being fluidly coupled with the needle-free injection device, such that the marking device is activated upon post-injection
10 venting of the needle-free injection device.

2. The needle-free injection device of claim 1, where the marking assembly includes a housing adapted to retain a fluid reservoir.

15 3. The needle-free injection device of claim 2, where the fluid reservoir terminates in a nib adapted to draw fluid from within the fluid reservoir out of the fluid reservoir.

4. The needle-free injection device of claim 3 wherein the housing terminates
20 in an outlet through which the nib at least partially extends.

5. The needle-free injection device of claim 4 including a fluid pathway adapted to direct exhaust gas from the syringe assembly across the nib and out of the outlet.

5 6. The needle-free injection device of claim 3, where the slidable valve assembly fluidly couples the gas reservoir with the housing such that exhaust gas from the gas reservoir is directed over a tip of the marking instrument.

7. The needle-free injection device of claim 1, where the syringe assembly
10 includes a slidable valve assembly configured to control buildup and release of pressure within the gas reservoir, the slidable valve assembly being progressively movable from a fired position to a stored position, where:

when the slidable valve assembly is moved from the fired position to the stored position the slidable valve assembly fluidly couples the gas reservoir with the marking
15 assembly.

8. A needle-free injection device comprising:

a user-grippable housing;

a syringe assembly movably secured to the housing and configured to expel injectable fluid out of the nozzle upon application of a pressurized gas to the syringe

5 assembly;

a pressurized gas delivery mechanism disposed within the housing and configured to selective apply pressurized gas to the syringe assembly; and

a marking assembly configured to place a mark on or near an injection site to indicate an injection has occurred, the marking assembly being fluidly coupled with the

10 needle-free injection device, such that the marking device is activated by exhaust gas from the gas delivery mechanism.

9. The needle-free injection device of claim 8 wherein the exhaust gas is

directed to the marking assembly upon post-injection venting of the needle-free injection

15 device.

10. The needle-free injection device of claim 8 wherein the marking assembly

includes a housing configured to retain a fluid reservoir.

20 11. The needle-free injection device of claim 10 wherein the fluid reservoir is a marker having a nib.

12. The needle-free injection device of claim 11 wherein the exhaust gas is directed over the nib of the marker and onto the surface of an injection recipient.

13. A needle-free injection device, comprising;

5

a gas reservoir;

a syringe assembly configured to expel injectable fluid out of a nozzle upon application of pressurized gas from the gas reservoir to the syringe assembly;

a pressurized gas delivery mechanism adapted to apply pressurized gas to the syringe assembly

10

a marking assembly configured to place a mark on or near an injection site to indicate an injection has occurred; and

an exhaust gas pathway configured to direct at least a portion of exhaust gas from the pressurized gas delivery mechanism to the marking assembly.